

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An electric lamp, comprising:
  - a) a lamp envelope having an inner surface;
  - b) means within the lamp envelope for generating ultraviolet radiation;
  - c) a layer of a luminescent material adjacent the inner surface of the lamp envelope for generating visible light when impinged by said ultraviolet radiation; and
  - d) a base-coat layer, between said inner surface of said lamp envelope and said layer of luminescent material, for reflecting ultraviolet radiation which has passed through said layer of luminescent material back into said luminescent material for increasing the visible light output of said luminescent material, said base-coat layer comprising a particulate non-fluorescent

oxidic material with a getter material on its surface which reacts with contaminants present in the lamp, said getter material comprising an alkaline earth metal borate or mixtures thereof.

2. (Currently Amended) AThe lamp according to claim 1, wherein said getter material is formed upon thermal decomposition of a getter precursor material during lehring.

3. (Currently Amended) AThe lamp according to claim 1, wherein said ~~undercoat~~ base-coat layer comprises a particulate aluminum oxide having a contiguous layer of a borate of an alkaline earth metal or mixtures thereof formed by exposing the particulate aluminum oxide during the lehring ~~(sintering)~~ process to an effective amount of a precursor material of an alkaline earth metal borate getter compound.

4. (Currently Amended) AThe lamp as claimed in claim 3, wherein said ~~undercoat~~ base-coat layer is sintered just prior to the envelope being sealed during manufacture of said lamp.

5. (Currently Amended) AThe lamp as claimed in claim 3, wherein said getter material includes a borate of an alkaline earth metal selected from the group consisting of magnesium, calcium, strontium, barium, and mixtures thereof.

6. (Currently Amended) AThe lamp as claimed in claim 5, wherein said sintered mixture is derived from a soluble precursor compound of an alkaline earth metal borate or mixtures thereof in an aqueous suspension of aluminum oxide.

7. (Currently Amended) AThe lamp as claimed in claim 3, wherein said getter material is an alkaline earth metal pyroborate.

8. (Currently Amended) AThe lamp as claimed in claim 7, wherein said layer of luminescent material comprises a halophosphate phosphor.

9. (Currently Amended) AThe lamp according to claim 1, wherein said means for generating ultraviolet radiation is ~~comprised by an arc tube~~ disposed within said lamp envelope, said ~~arc tube~~ lamp

envelope including a filling of an ionizable material and a rare gas and a pair of discharge electrodes between which a discharge takes place during lamp operation.

10. (Currently Amended) AThe lamp according to claim 1, wherein said means for generating ultraviolet radiation comprises a filling of an ionizable material and a rare gas within said lamp envelope and a pair of discharge electrodes each adjacent to a respective sealed end of said discharge vessel.

11. (Currently Amended) A low pressure mercury vapor fluorescent lamp, comprising:

- a) a tubular, light transmissive lamp envelope having opposing sealed ends and an inner tubular surface;
- b) a filling of mercury and a rare gas;
- c) a pair of discharge electrodes each arranged at a respective sealed end of said lamp envelope;

[[c)]] d) means for connecting said discharge electrodes to a source of electric potential outside of said lamp envelope, whereby during lamp operation a gas discharge is maintained between said

discharge electrodes, ~~which~~ wherein said gas discharge emits ultraviolet radiation;

[[d)]] e) a first ~~light transmissive and ultraviolet radiation reflecting~~ layer disposed on said inner tubular surface of said lamp envelope, wherein said first layer is a light transmissive and ultraviolet radiation reflecting layer, said first layer comprising a sintered mixture of an aluminum oxide material and a getter material which reacts with contaminants present in the lamp, said getter material comprising an alkaline earth metal borate or mixtures thereof; and

[[e)]] f) a second layer of luminescent material disposed on said first layer.

12. (Currently Amended) AThe lamp as claimed in claim 11, wherein said ~~reflecting~~ first layer comprises a particulate aluminum oxide having a contiguous layer of an alkaline earth metal borate or mixtures thereof formed by exposing the particulate aluminum oxide material during the ~~lehring~~ ~~(sintering)~~ process to an effective amount of an alkaline earth metal borate precursor compound.

13. (Currently Amended) AThe lamp as claimed in claim 11, wherein said ~~reflecting~~ first layer is sintered just prior to the envelope being sealed during manufacture of said lamp.

14. (Currently Amended) AThe lamp as claimed in claim 13, wherein said alkaline earth metal is selected from the group consisting of magnesium, calcium, strontium, barium, and mixtures thereof.

15. (Currently Amended) AThe lamp as claimed in claim 14, wherein said sintered mixture is derived from a soluble borate precursor material of an alkaline earth metal or mixture thereof in an aqueous suspension of aluminum oxide.

16. (Original) An electric lamp, comprising:

- a) a lamp envelope having an inner surface;
- b) means within the lamp envelope for generating ultraviolet radiation;
- c) a layer of a luminescent material adjacent the inner

surface of the lamp envelope for generating visible light when impinged by said ultraviolet radiation; and

d) a base-coat layer, between said inner surface of said lamp envelope and said layer of luminescent material, for reflecting ultraviolet radiation which has passed through said layer of luminescent material back into said luminescent material for increasing the visible light output of said luminescent material, said base-coat layer comprising a particulate non-fluorescent oxidic material with a getter material on its surface, said getter material comprising an alkaline earth metal borate or mixtures thereof effective to react with contaminants present in the lamp to the extent that arc instability after ignition of the lamp is substantially eliminated.

17. (Currently Amended) ~~An~~The electric lamp as claimed in claim 16, wherein said base-coat comprises from about 0.5 to about 1.0 grams of aluminum oxide containing an amount of calcium nitrate and boric acid calculated to produce as said getter material about 1 to about 3% calcium pyroborate based on the weight of the aluminum oxide.